

**GOVERNMENT OF INDIA
NEW AND RENEWABLE ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:2713

ANSWERED ON:01.12.2016

Generation of Wind Energy

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Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) the quantum of energy generated by wind energy projects at present, State-wise;
- (b) the per unit production cost of energy generated through wind energy;
- (c) the percentage of public and private sector companies engaged in production of wind energy in the country;
- (d) whether there is any special action plan to set up wind energy projects in the States including Bihar which are backward in energy production; and
- (e) if so, the details thereof?

Answer

THE MINISTER OF STATE FOR POWER, COAL, NEW AND RENEWABLE ENERGY & MINES (INDEPENDENT CHARGE) (SHRI PIYUSH GOYAL)

(a): During the first half of the FY 2016-17, over 31.6 BU were generated from wind energy projects in the country. The state-wise break-up is given below:

State Wind power generation during first half of FY 17 (Tentative in BU)

Rajasthan 3.94

Gujarat 5.10

Madhya Pradesh 2.46

Maharashtra 5.89

Andhra Pradesh 2.04

Telangana 0.12

Karnataka 4.08

Kerala 0.05

Tamil Nadu 7.96

Total 31.64

(b): The State Electricity Regulatory Commission determines the tariff for wind power applicable for the respective State. The Central Electricity Regulatory Commission (CERC) determines the generic tariff for renewable energy technologies every year. The levellised generic tariff determined by CERC for wind power for the year 2016-17 is given below:

Particular Levellised Tariff

(Rs. Per Unit)

Wind Zone -1 (CUF 20%) 6.60

Wind Zone -2 (CUF 22%) 6.00

Wind Zone -3 (CUF 25%) 5.28

Wind Zone -4 (CUF 30%) 4.40

Wind Zone -5 (CUF 32%) 4.13

(c): The wind power production in the country is mainly private sector driven and only a small fraction (around 6%) of total wind power installed capacity is from public sector companies.

(d) & (e): Wind power projects can only be installed at sites having adequate wind power potential. As per recent assessment of wind power potential by National Institute of Wind Energy, a total of 302 GW capacity wind power potential is available at 100 meter above ground level in the country. The potential is mainly concentrated in eight States including Andhra Pradesh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu and Telangana. The assessment indicates that Bihar do not have adequate wind power potential for grid connected wind power projects.
